

# RACING SPEC PRO-2T

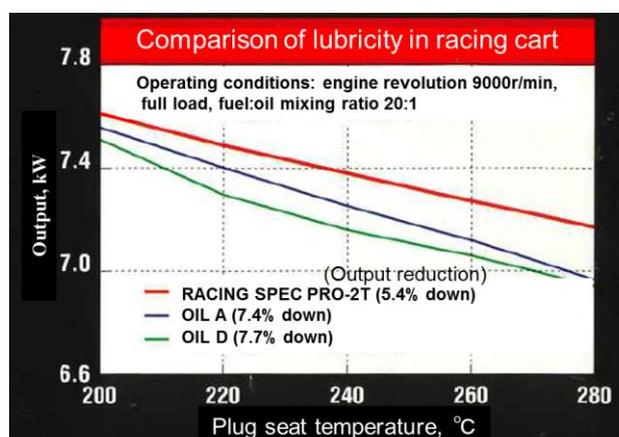
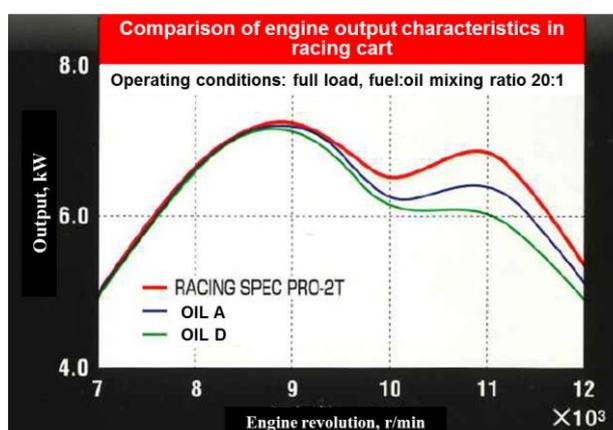
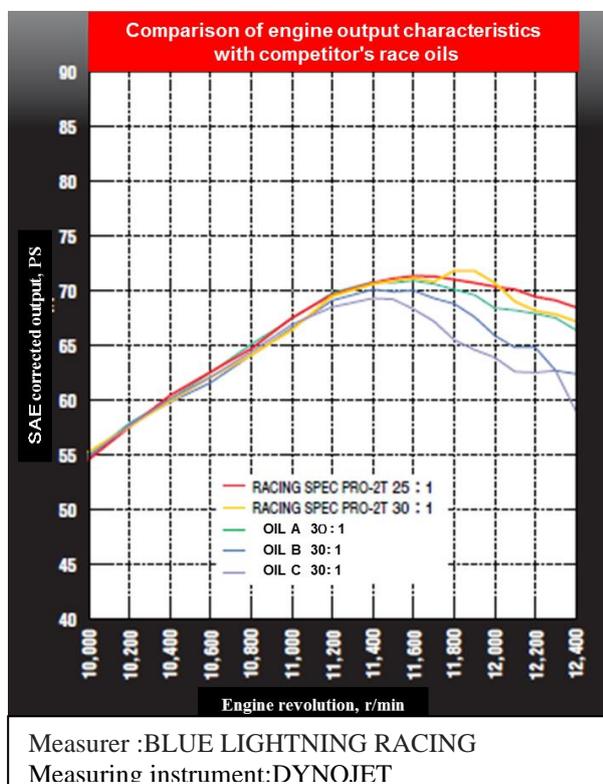
## 2 cycle engine oil for racing

**RACING SPEC PRO-2T** is a 2-cycle engine oil designed to win the race. It is SAE 50 mixed lubricating type oil. Carefully selected synthetic oil is blended in a balanced manner with metallic detergent and ashless dispersant that results in excellent high temperature cleanliness. **RACING SPEC PRO-2T** is used in real race for many years including Suzuka 4 hour endurance road race. It satisfies necessary performance for race bike in terms of high output and engine durability.

### ● Special Features

#### (1) Excellent engine high output performance

**RACING SPEC PRO-2T** is formulated with special ester base oils, and retains oil film on lubricating parts even at high temperature. As a result, it improves the engine output in comparison with other competitor's race oils. This high power output appears more prominently as the engine rotates at higher speeds and higher temperatures.

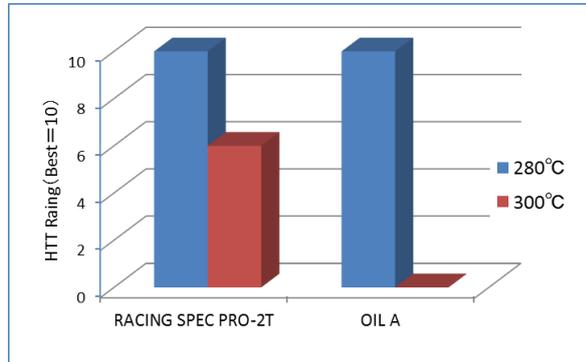


#### (2) Excellent thermal stability

**RACING SPEC PRO-2T** shows excellent cleanliness at high temperature, because it is formulated with special ester base oils and properly selected detergents with excellent thermal stability. It is superior to a competitor's race oil A at 300 °C in hot tube test (HTT).

The temperature of 300 °C which is said to be the limit of lubrication, corresponds to the maximum

temperature instantaneously experienced with a sports type air-cooled 2-cycle engine.



### (3) Excellent anti-seizure performance

Engine simulation is tested with **RACING SPEC PRO-2T** and the competitor's race oil A under the conditions of oil mixing ratio of 35: 1 and a plug seat temperature of 250 °C. The competitor's race oil A caused a decrease in output from the middle of the test, but **RACING SPEC PRO-2T** had no problem at all.

**RACING SPEC PRO-2T** has extremely excellent anti-seizure performance, because it does not cause piston seizure even if the oil mixture ratio is reduced to 65: 1. Furthermore it also passes when the plug seat temperature is raised to 300°C.

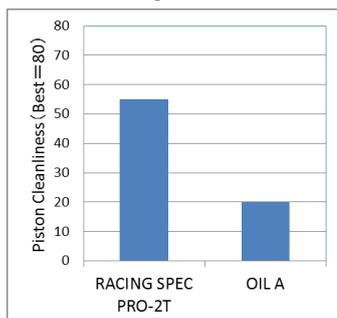
**Results of anti-seizure test**  
air-cooled 123cc engine, 7000r/min, full load, 3h

fuel : oil ratio	20 : 1	35 : 1	65 : 1	
plug seat temperature °C	300	250	250	300
RACING SPEC PRO-2T	Pass	Pass	Pass	Pass
Oil A	Pass	Output Down	Fail (176min)	Fail (104min)

(Time to seizure)

### (4) Excellent engine cleanliness

**RACING SPEC PRO-2T** demonstrates better piston cleanliness than the competitor's race oil A in the 2T engine test based on driving conditions simulating actual race.



**2T engine test:** air-cooled 123cc engine, 7000r/min, full load, 3h, plug seat temperature 250°C, fuel : oil ratio 35 : 1

### (5) Prevention of sticking of throttle slide in rainy weather

Emulsion sludge is generated in the throttle at the time of rainy weather or high humidity weather, which may interfere with throttle operation. **RACING SPEC PRO-2T** completely suppresses the formation of emulsion sludge by engine oil composition.

### (6) Good evaluation in actual motorcycle running test

Practical performance of **RACING SPEC PRO-2T** has been evaluated by motorcycle manufacturers and private racing teams. The features of **RACING SPEC PRO-2T** such as good dandruff at high speed have been confirmed even in the actual race. (See table below)

#### ● Containers

1-liter can (20 pieces)

#### ● Typical Properties of RACING SPEC PRO-2T

SAE viscosity grade				50
Appearance				Brown liquid
Density	(15°C)	g/cm <sup>3</sup>	0.968	
Viscosity	(40°C)	mm <sup>2</sup> /s	192.1	
	(100°C)	mm <sup>2</sup> /s	21.40	
Viscosity index				133
Flash point	(COC)	°C	246	
Pour point				-40
Acid number			mgKOH/g	0.13
Base number(D664)			mgKOH/g	3.26
Sulfated ash			mass%	0.18
Element, N			mass%	0.094

Note: The typical properties may be changed without notice. (March 2018)

### Evaluation of RACING SPEC PRO-2T by racers

Item	Answer
Driving feeling (output characteristics etc.)	Excellent acceleration at high speed. No output reduction. I can race with confidence. There is an output increase in the almost full revolution region compared with the conventionally used race oil.
Inspection of piston and ring wear	No abnormal wear such as scratches
Inspection of bearing wear	No seizure
Engine cleanliness	No carbon and varnish. It keeps the engine clean. No carbon in the exhaust.
Other	It mixes well with fuel. Emulsion is not generated in the carburetor even during rainy weather.



## Handling Precautions

▼ Follow these precautions when handling this product.

<b>Composition :</b>	Base Oil(s), Additives
<b>Precautionary pictograms:</b>	Not applicable
<b>Signal word:</b>	Not applicable
<b>Hazard Statement:</b>	Not applicable
<b>Precautionary Statements:</b>	<ul style="list-style-type: none"> <li>• Do not handle until all safety precautions have been read and understood.</li> <li>• Wear protective gloves/protective clothing/eye protection/face protection.</li> <li>• Do not allow the eyes to become exposed to the product. Do not swallow the product.</li> <li>• Wash hands thoroughly after handling.</li> <li>• Do not eat, drink or smoke when using this product.</li> </ul>
<b>Prevention</b>	
<b>Response</b>	
<b>Storage</b>	<ul style="list-style-type: none"> <li>• IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.</li> <li>• IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.</li> <li>• If the eyes are exposed to the product: Rinse the eyes with plenty of running water and immediately contact a physician.</li> <li>• IF ON SKIN: Wash with plenty of soap and water.</li> </ul>
<b>Disposal</b>	<ul style="list-style-type: none"> <li>• The product must be stored in a cool, well-ventilated location where it will not be exposed to direct sunlight.</li> <li>• Containers that have been opened must be tightly sealed.</li> <li>• Dispose of contents/container in accordance with local/regional/national/international regulations.</li> <li>• If there are any doubts about proper methods of handling the product, contact the point of purchase before proceeding with usage.</li> </ul>